

1

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Sun, Yongming  
Liu, Chenghua

## <120> Compositions and Methods Relating to Ovary Specific Genes and Proteins

<130> DEX-0279

<150> 60/252,061

<151> 2000-11-20

<150> 60/253,257

<151> 2000-11-27

<160> 167

<170> PatentIn version 3.1

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tgatccagca attccactgc taggtatata cccaagaagt aagaggaaat tagatgtgga     180
agagatgtct gcgtctttat gttgattgca gcactgttca caatagccaa gattgggaag     240
caatgtaagt gtctaccaat cttgacgaac ggtataaatg gaagagggtg ggctggggcg     300
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gtgtctgtgt ggaaagaagt agacatggga gacttttcat tttgttctac actaagaaaa      180
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caacaaaaaa agcgcttggg ggggaaccaa ggggccaaag gggggtcccc cggggggggac      600
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 cagaaggaga ctccatctca aaaaaaagaa aaaaaggtaa ggccggactc agtggctcac 180  
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 tatgagactg cgggtggcag ggccattgag gacacgcaat ggtcagaatc aactattgaa 180  
 gagctcgtcc gcatggtgct agaactaggg tgaggaacct ttcccaagtc tccccagagt 240  
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 <213> Homo sapien

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cgacgacaca caccacacgg ccccccacac caaccacac caagcaacga cccagcacia 180  
 cacaacaac cacacacacc acaagatgac gcgcaaaaca cacacagagc agaccaacac 240  
 ggcccaccca caacgagtca gtgcaaaagt gtgagctcag gcgagacgac acaacgaatg 300  
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 aacgaccaca aggcgaagaa gaaagacagc cacaaccaga cgagggcgaa gaaagaaggg 420  
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 taattttgaa attattgtaa gcgatgggtc tagctgtgtt tgcacatgct aggtctcaaa 180  
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 ttgggagatt atagatattg ttaaattttt aaaacaagac aatcggaaag gttataagaa 360  
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 aacagcctgg ccaatatgga gaaaccccat ctttactaaa atacaaaaat tagctgggag 480

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 <212> DNA  
 <213> Homo sapien

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 <223> a, c, g or t

<220>  
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 <223> a, c, g or t

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 aagagagaaa agaaaagttg ggtaattatt tagggaaagc tatacagaat aagtagaagt 240  
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 cggctctcca caaatcctc caccaacaac cattccgcgc caaggaacca aaaggggtga 540  
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 aggg 604

<210> 15  
 <211> 974  
 <212> DNA  
 <213> Homo sapien

<400> 15

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 <212> DNA  
 <213> Homo sapien

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 <223> a, c, g or t

<220>  
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 <223> a, c, g or t

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cctgtggcac caacaacaaa acgcagagac tctccaagag cncctcctct ccatatatgt 240  
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 gtgtgttccg cgtgtgtgtg tagaaatgtg tgtgtatatc tgccggtcac tcacacatat 360  
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 cacattcaat tccacacaaa acatatcacg cagtctaggt ggcacaagaa acatagatca 480  
 acgacatagt gcgacctata tcgacaactc gacaccaata ttatagcaac acacaatagg 540  
 gacaaagaga ggataccaat tgtgccattt gaacccatt agcgaatata cattatgagt 600  
 gatcaaaggc gatacacaat tccaaccag gcagatgaaa aaatagagaa gaggatgatc 660  
 aaaaagagag gagactgttt aaacccccaa tacaagagac aaccatgtac aataaaccac 720  
 cgaatcaggg gacatgataa aaaatgatcc cacaggtaaa caatttatac ccacaagtcg 780  
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 aacaggaaat tggagcacat act 863

<210> 17  
 <211> 510  
 <212> DNA  
 <213> Homo sapien

<400> 17  
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 cccacacatt ttcaaggga aaccttggtt atgttcaata catgtatttt aaaactgagg 180  
 gaagtatgtc ctttctgaga gattgtcatc aacatggata actgaaagg tttgatgctt 240  
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 agtatttggt aaattaaacc ttaggtaata aagtgttagg gttctttttc ctgttctaac 360  
 gaagtgaata tcataaatca attcattaga acaggaaaaa aaaaaaaaaa aaaaaaaaaa 420  
 aaaggctggg ggtaccctgg ggccaaagcg gtccccggg ggaattgggt tcccgcocaa 480  
 attcccccca aaaaacaaaa aaaagggtgc 510

<210> 18  
 <211> 947  
 <212> DNA  
 <213> Homo sapien

<400> 18  
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gaagggaaag acctgaccgt cccccagcc cgacacccgt aaagggctctg tgctgaggag 180  
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caacacaaca aaacaaaagt gtatgacaac aagagagcga gaaagaacaa aaaaaagaa 780  
gagtaggaga acacgccata aacaagaata atgacaacat cacaagaaag caacaacacg 840  
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<210> 19  
<211> 854  
<212> DNA  
<213> Homo sapien

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gagctgtcct cttacagcat aggacggcac cataagggac atgtcggata gagatttcac 180  
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tccccccaaa atcaggggcg gccacaacag acatatgtgg atacgagaaa acaaaagaaa 780  
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 gagaaaagaa aaaa 854

<210> 20  
 <211> 564  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (99)..(99)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (108)..(108)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (112)..(113)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (519)..(519)  
 <223> a, c, g or t

<220>  
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 <222> (557)..(557)  
 <223> a, c, g or t

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 cttcaacact attttgtttt atttttctta ttaatataag acggcaggaa tgtcaggcct 240  
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<210> 21  
 <211> 5606  
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<220>  
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<400> 21  
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<210> 23  
 <211> 666  
 <212> DNA  
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<210> 24  
 <211> 975  
 <212> DNA  
 <213> Homo sapien

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 accaaaaaaa aaagg 975

<210> 25  
 <211> 554  
 <212> DNA  
 <213> Homo sapien

<400> 25  
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 <213> Homo sapien

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<210> 27
<211> 657
<212> DNA
<213> Homo sapien
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<210> 28
<211> 1244
<212> DNA
<213> Homo sapien
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<220>
<221> misc feature
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<222> (37) .. (37)  
 <223> a, c, g or t

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<210> 29  
 <211> 663  
 <212> DNA  
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<210> 30  
 <211> 643  
 <212> DNA  
 <213> Homo sapien

<400> 30  
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 gatactttta ggtggtatgg ggctgcatt aagtggcaca aaaatcagag caagaaagcg 240  
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 acatgttccg atgcctgtgg aagacatgcc gacgtctct ctgcctaggg agcaggactt 360  
 gggcttaggg caggtggaaa aaattccaga cttttttaga cactgtattt tgttttaatg 420  
 gtatattcta tattggctac ttattgtat aggacaagtg gtagtggcat tctatttatt 480  
 ggtgaccttt tcaataaata gatttaagca aaaaaaaca aaaaaaaaaa aaaaaagctg 540  
 tgggggttac ccggggccaa agggggggcc cgggggggaa tgtggttctc ccgccccaat 600  
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<210> 31  
 <211> 1192  
 <212> DNA  
 <213> Homo sapien

<400> 31  
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 aaaaagctgt ggggggtacc cggggccaaa ggggggcccc gggggggaat gtggttctcc 1140  
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<210> 32  
 <211> 582  
 <212> DNA  
 <213> Homo sapien

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tcatagctgt tctcctgggtg tgaacacttt gctataactc ccgggcttcc aacaaaaatt 540  
 ttccccaaca acaaaacata aggaaaaaca caaaaaaggg gt 582

<210> 33  
 <211> 900  
 <212> DNA  
 <213> Homo sapien

<400> 33  
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 aacgatgaga tgagccctgt caaaaaaaaaa aaaaaaaaaa cgttggggat ccggccaagc 840  
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<210> 34  
 <211> 548  
 <212> DNA  
 <213> Homo sapien

<400> 34  
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 ttaggtagaa acaacagcat gctaatacaa aaaattatgc agtgtgctac tgaacttcag 540  
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<210> 35  
 <211> 372  
 <212> DNA  
 <213> Homo sapien

<400> 35  
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<210> 36  
 <211> 734  
 <212> DNA  
 <213> Homo sapien

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<210> 37  
<211> 537  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (492)..(492)  
<223> a, c, g or t

<400> 37  
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<210> 38  
<211> 1778  
<212> DNA  
<213> Homo sapien

<400> 38  
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 <213> Homo sapien

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<212> DNA  
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 <213> Homo sapien

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&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 47

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 actccgttcc cttct 255

&lt;210&gt; 48

&lt;211&gt; 1403

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 48

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<210> 51  
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&lt;213&gt; Homo sapien

&lt;400&gt; 51

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&lt;210&gt; 52

&lt;211&gt; 568

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 52

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&lt;210&gt; 53

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 53

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 <212> DNA  
 <213> Homo sapien

<400> 55  
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 <211> 2065  
 <212> DNA  
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 <211> 976  
 <212> DNA  
 <213> Homo sapien

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<210> 58  
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 <212> DNA  
 <213> Homo sapien

<400> 58  
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<210> 59
<211> 686
<212> DNA
<213> Homo sapien
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<400> 59  
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 <211> 624  
 <212> DNA  
 <213> Homo sapien

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<210> 61  
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 <212> DNA  
 <213> Homo sapien

<400> 61  
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 <212> DNA  
 <213> Homo sapien

<400> 62  
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<210> 63  
 <211> 829  
 <212> DNA  
 <213> Homo sapien



<400> 63  
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 <213> Homo sapien

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<212> DNA  
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<210> 66  
<211> 5814  
<212> DNA  
<213> Homo sapien

<400> 66  
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 <213> Homo sapien

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 <211> 1099  
 <212> DNA  
 <213> Homo sapien

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<210> 69  
 <211> 770  
 <212> DNA  
 <213> Homo sapien

<400> 69  
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<210> 70  
 <211> 357  
 <212> DNA  
 <213> Homo sapien

<400> 70  
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gaggaaggaa aatacaggcc tggccaagca gggccccctt ttcggtatca tctttgttcc 300  
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<210> 71  
 <211> 1589  
 <212> DNA  
 <213> Homo sapien

<400> 71  
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 ggataatcag attacacaaa atctaggcag tgaacaagtc ttcattcctgg cccaggaaat 180  
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cacttgactg ggaaaaaaaa atggcggtc 1589

<210> 72  
<211> 471  
<212> DNA  
<213> Homo sapien

<400> 72  
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<210> 73  
<211> 772  
<212> DNA  
<213> Homo sapien

<400> 73  
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aaagacaaaa aaaaagagtg ctgtggggta atcctggggg cctaaggatg tgttccctgg 660

tgtgtcgtagc tattgttgtc ccggttccca atttcccccc ctattcttct gtggacgaca 720  
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<210> 74  
 <211> 1061  
 <212> DNA  
 <213> Homo sapien

<400> 74  
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 <211> 426  
 <212> DNA  
 <213> Homo sapien

<400> 75  
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<210> 76  
 <211> 977  
 <212> DNA  
 <213> Homo sapien

<400> 76  
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<210> 77  
 <211> 4025  
 <212> DNA  
 <213> Homo sapien

<400> 77

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<211> 674  
<212> DNA  
<213> Homo sapien

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<210> 79  
<211> 1375  
<212> DNA  
<213> Homo sapien

<400> 79  
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 ggagtgccta agagctgtct tccgatgtcg ctcttctttt cccgcgcgac cggcgaggga 420  
 ggaagaagcg cgaagagccg ttagtcatgc cgggtgtgtg gcggcgggcg agactgcggg 480  
 cccgtagctg ggctctgcga ggtgcaagaa agcctttgag gtgaagggtg atgaaagtca 540  
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 agagggagga agaaaaaaa caaaaaaaag aggggggggg agccaacagc ccccccggtg 900  
 gggccaagcg agtggaaca cgaccaccag accgacatca cgaccgacgg tagcacccaa 960  
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 ccgcacaggg agaccgggac caccagacgg aaagagccga caaccacca gaacaggacg 1320  
 acgcacgaac acacacgaca ccgacatcac acacaacagc gaacggaaag gcata 1375

<210> 80  
 <211> 911  
 <212> DNA  
 <213> Homo sapien

<400> 80  
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 ttccacgtcc accggggccc tcagcctcca gtctcagaca gccctcccag ggctggccag 180  
 ccagaactga tgtcaccatg ccagagccc cagctcccca tactgcagaa ctgatgatgg 240  
 tcatgggggg cagtggagca ggggcaggag agcaggatga gcaggaatgc aataatcaag 300

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 gactcgggaa ctaaaacaat caattccctt gagcaataaa attatggaca gtgcaaaaaa 540  
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 gaacaccagc gaaaagcgaa aaaacaccac aaggagaaag aagaaaccag agaaggcaac 720  
 aagaaaacag agagaaaaca agagggcgag ggggaaaaga gacgcgcgca agaaaaagca 780  
 ggaaccgcag gcagagacag agaccagcaa gggcacacaa cgacgaacaa cgaaacgcag 840  
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<210> 81  
 <211> 970  
 <212> DNA  
 <213> Homo sapien

<400> 81  
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 atgatccaga atgagaagga agcggaagac aaggctcagt gtgagaccag ggtcagagct 420  
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 agaaaacaga gagaaaacaa gagggcgagg gggaaaagag acgcgcgcaa gaaaaagcag 840  
 gaaccgcagg cagagacaga gaccagcaag ggcacacaac gacgaacaac gaaacgcagc 900



caagagcaga cgaaagcaag acacaaagca gacgacgaac gaggcacgcg aaaggagcgc 960  
aagagagaga 970

<210> 82  
<211> 681  
<212> DNA  
<213> Homo sapien

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attaatgcat cagaacttta tgttataatc atatggattt atacgtaaat taagaaaaaa 180  
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gaaggacagg agtccaagcc c 681

<210> 83  
<211> 1431  
<212> DNA  
<213> Homo sapien

<400> 83  
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<210> 84  
 <211> 626  
 <212> DNA  
 <213> Homo sapien

<400> 84  
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626

<210> 85  
 <211> 779  
 <212> DNA  
 <213> Homo sapien

<400> 85  
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<210> 86  
 <211> 462  
 <212> DNA  
 <213> Homo sapien

<400> 86  
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 caatatataa tatttatata atctccttgg gtgattccaa ttctctgcca gcgctgagt 420  
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<210> 87  
 <211> 911  
 <212> DNA  
 <213> Homo sapien

<400> 87  
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<210> 88  
 <211> 771  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (740)..(740)  
 <223> a, c, g or t

<400> 88  
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 <211> 2238  
 <212> DNA  
 <213> Homo sapien

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<210> 91  
 <211> 471  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (397)..(397)  
 <223> a, c, g or t

<400> 91  
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<210> 92  
 <211> 1344  
 <212> DNA  
 <213> Homo sapien

<400> 92  
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 ttttacttga tgttgataac atcacaataa attatggaga aaaatacata tttggctaac 300  
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<210> 93
<211> 532
<212> DNA
<213> Homo sapien
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[illegible]



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<210> 94  
 <211> 106  
 <212> PRT  
 <213> Homo sapien

<400> 94

Met Ala Cys Asn Leu Ser Tyr Trp Gly Pro Trp Arg Ala Ala Lys Ser  
 1 5 10 15

Ile Trp Thr Leu Val Glu Val Gly Gly Leu Ala Val Ser Leu Asp Cys  
 20 25 30

Trp Pro Pro Arg His Ser Lys Pro Gly Ala Ala Glu Gly Arg Leu Leu  
 35 40 45

Ser Thr Lys Lys Lys Lys Lys Lys Lys Asn Gly Gly Gly Cys Thr Arg  
 50 55 60

Gly Arg Lys Arg Gly Cys Arg Gly Gly Asn Gly Val Phe Arg Ala Pro  
 65 70 75 80

Asn Ser Pro His Ile Leu Ala Lys Glu Lys Cys Lys Arg Lys Lys Lys  
 85 90 95

Arg Lys Arg Lys Arg Lys Glu Lys Arg Lys  
 100 105

<210> 95  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 95

Met Val Ala Pro Ile Asp Ala Ala Arg Pro Gln Asp Arg Thr Thr Glu  
 1 5 10 15

Thr Ser His Gln Arg Thr Asn Thr Val Glu Arg Ala Arg Gln Glu Asp  
 20 25 30

Gly Gly Arg Val Ser Gly His Thr Ala Asn Arg Ser Thr Cys Arg Ala

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35

40

45

Asp Gly Ile Gln Ala Asp Pro Gln Gly Gln Gly  
50 55

<210> 96  
<211> 114  
<212> PRT  
<213> Homo sapien

<400> 96

Met Gly Val Phe Thr Phe Val His Pro Gly Leu Asp Ser Phe Leu Arg  
1 5 10 15

Gly Ser Leu Ala Leu Tyr Ala His Asn Leu Gly Ser Leu Leu Ser Leu  
20 25 30

Pro Pro Arg Phe Lys Gln Leu Ser Cys Leu Ser Leu Pro Ser Ser Trp  
35 40 45

Glu Tyr Arg Cys Ala Pro Pro Arg Pro Ala Asn Phe Cys Ile Leu Val  
50 55 60

Lys Met Gly Phe Leu His Ile Gly Gln Ala Val Leu Lys Leu Leu Thr  
65 70 75 80

Ser Gly Asp Leu Thr Ser Ala Ser Gln Ser Ala Gly Ile Tyr Arg His  
85 90 95

Glu Pro Pro Arg Pro Gly Pro Thr Ser Ser Ile Tyr Thr Val Arg Gln  
100 105 110

Asp Trp

<210> 97  
<211> 71  
<212> PRT  
<213> Homo sapien

<400> 97

Met Leu Ser Ser Leu Ala Gln Val Ile Glu Phe Phe Phe Cys Phe Phe  
1 5 10 15

Leu Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala  
20 25 30

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Asn Ser Ala His Cys Lys Leu Arg Leu Pro Gly Ser Cys His Ser Pro  
 35 40 45

Val Ser Ala Ser Pro Val Ala Gly Thr Thr Gly Ala Arg His His Thr  
 50 55 60

Gln Leu Ile Phe Val Phe Tyr  
 65 70

<210> 98  
 <211> 62  
 <212> PRT  
 <213> Homo sapien

<400> 98

Phe Phe Glu Thr Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp  
 1 5 10 15

Cys Glu Leu Gly Ser Leu Gln Ala Pro Pro Pro Gly Phe Met Pro Leu  
 20 25 30

Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro  
 35 40 45

His Pro Ala Asn Phe Cys Ile Leu Leu Glu Met Gly Phe His  
 50 55 60

<210> 99  
 <211> 99  
 <212> PRT  
 <213> Homo sapien

<400> 99

Met Thr Gly His Arg Thr Arg Pro Ala Tyr Leu Pro Val Lys Ala Ser  
 1 5 10 15

Ser Pro Gly Arg Tyr Pro Arg Thr Trp Asp Glu Gln Pro Gly Ser Pro  
 20 25 30

Glu Asp Thr Tyr Leu Ala Arg Arg Thr Ala Ser Ala Ser Trp Thr Ala  
 35 40 45

Arg Arg Leu Leu Ala Ser Leu Tyr Ser Gln Pro His Arg Gly Pro Glu  
 50 55 60

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Gln Val Pro Gln Gly Gly Thr Ser Ile Ser Ala Leu His Asp Ala Leu  
65 70 75 80

Glu Ala Leu His His His Asp Asn Ala Glu Arg Ala Ser His Gly Arg  
85 90 95

Pro Gly Lys

<210> 100  
<211> 75  
<212> PRT  
<213> Homo sapien

<400> 100

Met Cys Phe Val Lys Gln Met Leu Glu Gly Ser Met Leu Val Lys Ser  
1 5 10 15

His His Gln Ser Leu Ile Ser Ser Asn Gln Gly His Lys His Cys Gly  
20 25 30

Arg Pro Gln Gly Pro Leu Pro Arg Lys Thr Arg Asp Leu Cys Ser Leu  
35 40 45

Val Tyr Leu Leu Thr Phe Pro Pro Leu Leu Ser His Asp Pro Ala Lys  
50 55 60

Tyr Pro Ser Val Arg Asn Thr Gln Gly Ile Ile  
65 70 75

<210> 101  
<211> 110  
<212> PRT  
<213> Homo sapien

<400> 101

Met Thr Leu Asn Glu His Ala Ala Phe Lys His Leu Phe Asn Lys Ala  
1 5 10 15

His Leu Ala Leu Pro Leu Ile His Leu Thr Leu Ser Gly His Arg Thr  
20 25 30

Cys Phe Arg Glu His Arg Val Gly Gly Lys Val Thr Asp Gln Gln Asp  
35 40 45

Pro Lys Ala Glu Glu Phe Phe Leu Val Ala Asn Lys Met Lys Ser Leu  
50 55 60

Pro Cys Leu Leu Leu Ser Thr Gln Thr Arg Gln Pro Ser Asp Phe Ser  
65 70 75 80

Ile Phe Ser Pro Pro Phe Pro Pro Phe Tyr Ser Thr Lys Pro Pro Ser  
85 90 95

Ser Ser Trp Pro Val Leu Asn Glu Leu Leu Gly Thr Cys Pro  
100 105 110

<210> 102

<211> 61

<212> PRT

<213> Homo sapien

<400> 102

Met Pro Leu His Ser Ser Leu Gly Asn Ile Val Arg Ser Cys Leu Lys  
1 5 10 15

Asn Asn Asn Asn Lys Ile Gly Arg Ala Arg Trp Leu Thr Pro Val Ile  
20 25 30

Pro Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Arg Gly Gln Glu Ile  
35 40 45

Lys Thr Ile Leu Ala Asn Thr Val Lys Pro His Leu Tyr  
50 55 60

<210> 103

<211> 120

<212> PRT

<213> Homo sapien

<400> 103

Phe Phe Leu Cys Phe Phe Phe Leu Glu Trp Ser Leu Ala Val Leu Pro  
1 5 10 15

Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala His Cys Lys Leu His Leu  
20 25 30

Pro Gly Ser Arg His Ser Pro Ala Ser Ala Ser Leu Val Ala Gly Thr  
35 40 45

Thr Gly Ala His His His Thr Arg Ala Lys Phe Phe Val Phe Leu Val

50

55

60

Glu Met Gly Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr  
65 70 75 80

Ser Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val  
85 90 95

Ser His Arg Ala Arg Pro Ile Leu Leu Leu Leu Phe Leu Arg Gln Asp  
100 105 110

Leu Thr Met Phe Pro Arg Leu Arg  
115 120

<210> 104

<211> 37

<212> PRT

<213> Homo sapien

<400> 104

Met Arg Thr Ser Ser Ser Ile Val Asp Ser Asp His Cys Val Ser Ser  
1 5 10 15

Met Ala Leu Pro Pro Ala Val Ser Tyr Phe Ala Pro Ser Gly His Leu  
20 25 30

Leu Arg Gln Tyr Asp  
35

<210> 105

<211> 67

<212> PRT

<213> Homo sapien

<400> 105

Met Glu Lys Pro His His Ala Leu Ser His Lys Lys Gln Asn Thr His  
1 5 10 15

His Asp Asp Thr His Pro Thr Ala Pro His Thr Asn Pro His Gln Ala  
20 25 30

Thr Thr Gln His Asn Thr Asn Asn His Thr His His Lys Met Thr Arg  
35 40 45

Lys Thr His Thr Glu Gln Thr Asn Thr Ala His Pro Gln Arg Val Ser  
50 55 60

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<210>	107
<211>	82

<212> PRT  
 <213> Homo sapien

<400> 107

Met Ala Trp Leu Gly Leu Arg Gly Leu Thr Phe Leu Pro Ser Tyr Ile  
 1 5 10 15

Asn Lys Lys Asn Lys Thr Asn Ser Val Glu Val Leu Gly Trp Gln Lys  
 20 25 30

Phe Leu Gly Gly Asp Met Glu Arg Glu Trp Ala Met Phe Leu Arg Ala  
 35 40 45

Ala Ser Ser Gly Ile Arg Gly Gly Val Gly Thr Phe His Cys Glu Ser  
 50 55 60

Tyr Pro Lys Leu Gly Ile Arg Asp Gly Leu Gly Gly Ser Arg Asp Leu  
 65 70 75 80

Gly Arg

<210> 108  
 <211> 1054  
 <212> PRT  
 <213> Homo sapien

<400> 108

Met Pro Arg Leu Lys Glu Ser Arg Ser His Glu Ser Leu Leu Ser Pro  
 1 5 10 15

Ser Ser Ala Val Glu Ala Leu Asp Leu Ser Met Glu Glu Glu Val Val  
 20 25 30

Ile Lys Pro Val His Ser Ser Ile Leu Gly Gln Asp Tyr Cys Phe Glu  
 35 40 45

Val Thr Thr Ser Ser Gly Ser Lys Cys Phe Ser Cys Arg Ser Ala Ala  
 50 55 60

Glu Arg Asp Lys Trp Met Glu Asn Leu Arg Arg Ala Val His Pro Asn  
 65 70 75 80

Lys Asp Asn Ser Arg Arg Val Glu His Ile Leu Lys Leu Trp Val Ile  
 85 90 95

1001935 112001



Glu Ala Lys Asp Leu Pro Ala Lys Lys Lys Tyr Leu Cys Glu Leu Cys  
 100 105 110

Leu Asp Asp Val Leu Tyr Ala Arg Thr Thr Gly Lys Leu Lys Thr Asp  
 115 120 125

Asn Val Phe Trp Gly Glu His Phe Glu Phe His Asn Leu Pro Pro Leu  
 130 135 140

Arg Thr Val Thr Val His Leu Tyr Arg Glu Thr Asp Lys Lys Lys Lys  
 145 150 155 160

Lys Glu Arg Asn Ser Tyr Leu Gly Leu Val Ser Leu Pro Ala Ala Ser  
 165 170 175

Val Ala Gly Arg Gln Phe Val Glu Lys Trp Tyr Pro Val Val Thr Pro  
 180 185 190

Asn Pro Lys Gly Gly Lys Gly Pro Gly Pro Met Ile Arg Ile Lys Ala  
 195 200 205

Arg Tyr Gln Thr Ile Thr Ile Leu Pro Met Glu Met Tyr Lys Glu Phe  
 210 215 220

Ala Glu His Ile Thr Asn His Tyr Leu Gly Leu Cys Ala Ala Leu Glu  
 225 230 235 240

Pro Ile Leu Ser Ala Lys Thr Lys Glu Glu Met Ala Ser Ala Leu Val  
 245 250 255

His Ile Leu Gln Ser Thr Gly Lys Val Lys Asp Phe Leu Thr Asp Leu  
 260 265 270

Met Met Ser Glu Val Asp Arg Cys Gly Asp Asn Glu His Leu Ile Phe  
 275 280 285

Arg Glu Asn Thr Leu Ala Thr Lys Ala Ile Glu Glu Tyr Leu Lys Leu  
 290 295 300

Val Gly Gln Lys Tyr Leu Gln Asp Ala Leu Gly Glu Phe Ile Lys Ala  
 305 310 315 320

Leu Tyr Glu Ser Asp Glu Asn Cys Glu Val Asp Pro Ser Lys Cys Ser  
 325 330 335

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Ala Ala Asp Leu Pro Glu His Gln Gly Asn Leu Lys Met Cys Cys Glu  
 340 345 350  
 Leu Ala Phe Cys Lys Ile Ile Asn Ser Tyr Cys Val Phe Pro Arg Glu  
 355 360 365  
 Leu Lys Glu Val Phe Ala Ser Trp Arg Gln Glu Cys Ser Ser Arg Gly  
 370 375 380  
 Arg Pro Asp Ile Ser Glu Arg Leu Ile Ser Ala Ser Leu Phe Leu Arg  
 385 390 395 400  
 Phe Leu Cys Pro Ala Ile Met Ser Pro Ser Leu Phe Asn Leu Leu Gln  
 405 410 415  
 Glu Tyr Pro Asp Asp Arg Thr Ala Arg Thr Leu Thr Leu Ile Ala Lys  
 420 425 430  
 Val Thr Gln Asn Leu Ala Asn Phe Ala Lys Phe Gly Ser Lys Glu Glu  
 435 440 445  
 Tyr Met Ser Phe Met Asn Gln Phe Leu Glu His Glu Trp Thr Asn Met  
 450 455 460  
 Gln Arg Phe Leu Leu Glu Ile Ser Asn Pro Glu Thr Leu Ser Asn Thr  
 465 470 475 480  
 Ala Gly Phe Glu Gly Tyr Ile Asp Leu Gly Arg Glu Leu Ser Ser Leu  
 485 490 495  
 His Ser Leu Leu Trp Glu Ala Val Ser Gln Leu Glu Gln Ser Ile Val  
 500 505 510  
 Ser Lys Leu Gly Pro Leu Pro Arg Ile Leu Arg Asp Val His Thr Ala  
 515 520 525  
 Leu Ser Thr Pro Gly Ser Gly Gln Leu Pro Gly Thr Asn Asp Leu Ala  
 530 535 540  
 Ser Thr Pro Gly Ser Gly Ser Ser Ser Ile Ser Ala Gly Leu Gln Lys  
 545 550 555 560  
 Met Val Ile Glu Asn Asp Leu Ser Gly Leu Ile Asp Phe Thr Arg Leu

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 1001335 42001

565

570

575

Pro Ser Pro Thr Pro Glu Asn Lys Asp Leu Phe Phe Val Thr Arg Ser  
580 585 590

Ser Gly Val Gln Pro Ser Pro Ala Arg Ser Ser Ser Tyr Ser Glu Ala  
595 600 605

Asn Glu Pro Asp Leu Gln Met Ala Asn Gly Gly Lys Ser Leu Ser Met  
610 615 620

Val Asp Leu Gln Asp Ala Arg Thr Leu Asp Gly Glu Ala Gly Ser Pro  
625 630 635 640

Ala Gly Pro Asp Val Leu Pro Thr Asp Gly Gln Ala Ala Ala Ala Gln  
645 650 655

Leu Val Ala Gly Trp Pro Ala Arg Ala Thr Pro Val Asn Leu Ala Gly  
660 665 670

Leu Ala Thr Val Arg Arg Ala Gly Gln Thr Pro Thr Thr Pro Gly Thr  
675 680 685

Ser Glu Gly Ala Pro Gly Arg Pro Gln Leu Leu Ala Pro Leu Ser Phe  
690 695 700

Gln Asn Pro Val Tyr Gln Met Ala Ala Gly Leu Pro Leu Ser Pro Arg  
705 710 715 720

Gly Leu Gly Asp Ser Gly Ser Glu Gly His Ser Ser Leu Ser Ser His  
725 730 735

Ser Asn Ser Glu Glu Leu Ala Ala Ala Ala Lys Leu Gly Ser Phe Ser  
740 745 750

Thr Ala Ala Glu Glu Leu Ala Arg Arg Pro Gly Glu Leu Ala Arg Arg  
755 760 765

Gln Met Ser Leu Thr Glu Lys Gly Gly Gln Pro Thr Val Pro Arg Gln  
770 775 780

Asn Ser Ala Gly Pro Gln Arg Arg Ile Asp Gln Pro Pro Pro Pro Pro  
785 790 795 800

1001895-12001

80

Pro Pro Pro Pro Pro Ala Pro Arg Gly Arg Thr Pro Pro Asn Leu Leu  
805 810 815

Ser Thr Leu Gln Tyr Pro Arg Pro Ser Ser Gly Thr Leu Ala Ser Ala  
820 825 830

Ser Pro Asp Trp Val Gly Pro Ser Thr Arg Leu Arg Gln Gln Ser Ser  
835 840 845

Ser Ser Lys Gly Asp Ser Pro Glu Leu Lys Pro Arg Ala Val His Lys  
850 855 860

Gln Gly Pro Ser Pro Val Ser Pro Asn Ala Leu Asp Arg Thr Ala Ala  
865 870 875 880

Trp Leu Leu Thr Met Asn Ala Gln Leu Leu Glu Asp Glu Gly Leu Gly  
885 890 895

Pro Asp Pro Pro His Arg Asp Arg Leu Arg Ser Lys Asp Glu Leu Ser  
900 905 910

Gln Ala Glu Lys Asp Leu Ala Val Leu Gln Asp Lys Leu Arg Ile Ser  
915 920 925

Thr Lys Lys Leu Glu Glu Tyr Glu Thr Leu Phe Lys Cys Gln Glu Glu  
930 935 940

Thr Thr Gln Lys Leu Val Leu Glu Tyr Gln Ala Arg Leu Glu Glu Gly  
945 950 955 960

Glu Glu Arg Leu Arg Arg Gln Gln Glu Asp Lys Asp Ile Gln Met Lys  
965 970 975

Gly Ile Ile Ser Arg Leu Met Ser Val Glu Glu Glu Leu Lys Lys Asp  
980 985 990

His Ala Glu Met Gln Ala Ala Val Asp Ser Lys Gln Lys Ile Ile Asp  
995 1000 1005

Ala Gln Val Tyr Thr Ala Leu Arg Ser Leu Ser His Asp Pro Arg  
1010 1015 1020

Ser His Pro His Cys Pro Gln Glu Lys Arg Ile Ala Ser Leu Asp  
1025 1030 1035

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Ala Ala Asn Ala Arg Leu Met Ser Ala Leu Thr Gln Leu Lys Glu  
 1040 1045 1050

Arg

<210> 109  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

<400> 109

Met Ser His His Ala Arg Pro His Leu Phe Phe Ile Arg Ser Ser Val  
 1 5 10 15

Gly Arg His Leu His Cys Phe Gln Ile Leu Ala Ile Val Asn Ser Ala  
 20 25 30

Ala Ile Asn Ile Arg Val Gln Thr Ser Leu Pro His Leu Ile Ser Phe  
 35 40 45

Leu Leu Gly Ile Tyr Leu Ala Val Glu Leu Leu Asp His Met Val Ala  
 50 55 60

Leu Phe Leu Val Phe  
 65

<210> 110  
 <211> 204  
 <212> PRT  
 <213> Homo sapien

<400> 110

Met Phe Arg Gly Gly Glu Leu Trp Gly Ala Arg Gly Glu Ile Thr His  
 1 5 10 15

Phe Leu Thr Thr Pro His Gly Gly Lys Thr Pro Ile Leu Ala Pro Pro  
 20 25 30

Arg Cys Val Tyr Pro Pro Thr Pro Arg Ala Leu Val Phe Val Phe Phe  
 35 40 45

Ser Phe Tyr Phe Phe Phe Pro Ser Val Ser Val Cys Ser Pro Trp Leu  
 50 55 60

1000185-12001

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<210> 112
<211> 99
<212> PRT
<213> Homo sapien
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&lt;400&gt; 112

Met Glu His Thr Ile Arg Phe Tyr Thr Glu Thr Phe His Cys Pro Gly  
1 5 10 15

Thr Gly Arg Arg Gln Met Pro Ser Ser Cys Leu Asn Cys Lys Glu Ala  
20 25 30

Phe Leu Leu Leu Thr Leu Ile Leu Leu Ser Thr Asp Pro Leu Arg Val  
35 40 45

Ser Gly Trp Gly Asp Gly Gln Val Phe Pro Phe Pro Arg Gly His Ile  
50 55 60

Ser Asp Tyr His Met Gly Arg Asn Leu Gly Gln Tyr Leu Ala Phe Leu  
65 70 75 80

Gly Arg Gly Pro Cys Ser Leu Pro Gln Cys Leu Cys Pro Gly Tyr Leu  
85 90 95

Pro Gly Arg

&lt;210&gt; 113

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 113

Met Gly Leu Gly Val Ile Gln Thr Thr Arg Asn Asn Lys Thr Lys Lys  
1 5 10 15

Lys Asn Lys Glu Gly Ser Trp Gly Gly Pro Lys Gly Pro Lys Arg Gly  
20 25 30

Val Pro Arg Gly Trp Glu Lys Glu Glu Arg Arg Gly Gly Glu Lys Asn  
35 40 45

Ser Pro Pro Lys Ile Arg Gly Gly His Asn Arg His Met Trp Ile Arg  
50 55 60

Glu Asn Lys Arg Lys Glu Lys Arg Arg Gly Glu Thr Arg Asn Lys Lys  
65 70 75 80

Glu Glu Arg Lys Lys Ala Lys Lys Gln Arg Lys Glu Lys

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84

85

90

<210> 114  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

<400> 114

Met Ser Gln Glu Lys Asp Phe His Lys Val Met Ser Ser Leu Lys Ala  
 1 5 10 15

Arg Thr Gly His Leu His Phe Phe Cys Gly Gly Arg Ser Ser Val Lys  
 20 25 30

Val Gly Gln Ser Ile Phe Thr Ser Phe Val Ile Leu Gln Leu Leu Gln  
 35 40 45

Ala Ile Trp Ala Tyr Thr Cys Lys Ser Gln Gly Met Arg Trp Leu Gly  
 50 55 60

Leu Gly Ser Glu Ala  
 65

<210> 115  
 <211> 843  
 <212> PRT  
 <213> Homo sapien

<400> 115

Val Asn Asn Glu Ile Lys Thr Glu Ile Lys Lys Phe Phe Glu Thr Ser  
 1 5 10 15

Glu Asn Lys Asp Thr Thr Tyr Gln Asn Leu Trp Asp Ala Phe Lys Ala  
 20 25 30

Val Cys Arg Gly Lys Phe Ile Ala Leu Asn Ala His Lys Arg Lys Gln  
 35 40 45

Glu Arg Ser Lys Ile Asp Ile Leu Thr Ser Gln Leu Lys Glu Leu Glu  
 50 55 60

Lys Gln Glu Gln Thr His Ser Lys Ala Ser Arg Arg Gln Glu Ile Thr  
 65 70 75 80

Glu Ile Arg Ala Glu Leu Lys Glu Ile Glu Thr Gln Lys Thr Leu Gln  
 85 90 95

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Lys Ile Asn Glu Ser Arg Ser Trp Phe Phe Glu Arg Ile Asn Lys Ile  
 100 105 110

Asp Arg Pro Leu Ala Arg Leu Ile Lys Lys Lys Arg Gln Lys Asn Gln  
 115 120 125

Ile Asp Ala Ile Lys Asn Asp Lys Gly Asp Ile Thr Thr Asp Pro Thr  
 130 135 140

Glu Ile Gln Thr Thr Ile Arg Glu Tyr Tyr Lys His Leu Tyr Ala Asn  
 145 150 155 160

Lys Leu Glu Asn Leu Glu Glu Met Asp Lys Phe Leu Asp Thr Tyr Thr  
 165 170 175

Leu Pro Arg Leu Asn Gln Glu Glu Ala Glu Ser Leu Asn Arg Pro Ile  
 180 185 190

Thr Gly Ser Glu Ile Val Ala Ile Ile Asn Ser Leu Pro Thr Lys Lys  
 195 200 205

Ser Pro Gly Pro Asp Gly Phe Thr Ala Glu Phe Tyr Gln Arg Tyr Lys  
 210 215 220

Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Phe Gln Ser Ile Glu Lys  
 225 230 235 240

Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala Ser Ile Ile Leu Ile  
 245 250 255

Pro Lys Leu Gly Arg Asp Thr Thr Lys Lys Glu Asn Phe Arg Pro Ile  
 260 265 270

Ser Leu Met Asn Thr Asp Ala Lys Ile Leu Asn Lys Ile Leu Thr Asn  
 275 280 285

Arg Ile Gln Gln His Ile Lys Lys Leu Ile His His Asp Gln Val Gly  
 290 295 300

Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile Cys Lys Ser Ile Asn  
 305 310 315 320

Val Ile Gln Tyr Ile Asn Arg Ala Lys Asp Lys Asn His Met Ile Ile

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335

Lys Leu Pro Met Pro Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys  
545 550 555 560

Phe Ile Trp Asn Glu Lys Thr Ala Arg Ile Ala Lys Leu Ile Leu Ser  
565 570 575

Gln Lys Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr  
580 585 590

Tyr Lys Pro Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg  
595 600 605

Asp Ile Asp Gln Trp Asn Arg Thr Glu Pro Ser Glu Ile Thr Pro His  
610 615 620

Thr Tyr Asn Tyr Arg Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp  
625 630 635 640

Gly Lys Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala  
645 650 655

Ile Cys Arg Lys Leu Lys Leu Asp Pro Phe Leu Thr Pro Ser Thr Lys  
660 665 670

Ile Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile  
675 680 685

Lys Thr Leu Glu Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Met  
690 695 700

Gly Lys Asp Phe Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala  
705 710 715 720

Lys Ile Asp Lys Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala  
725 730 735

Lys Glu Thr Thr Ile Arg Val Asn Arg Gln Pro Thr Lys Trp Glu Lys  
740 745 750

Ile Phe Ala Thr Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr  
755 760 765

Asn Glu Leu Lys His Ile Tyr Lys Lys Lys Thr Asn Ser Pro Ile Lys  
770 775 780

Lys Trp Met Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr  
785 790 795 800

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Gly Ala Asp His Lys Val Arg Arg Ser Arg Pro Ser Trp Pro Thr Trp  
20 25 30

Ala Asn Pro Val Ser Thr Lys Ile Glu Lys Ile Ser Trp Ala Trp Trp  
 35 40 45

Leu Ala Pro Val Ile Pro Ala Arg Leu Thr Val Lys Ala Ala  
 50 55 60

<210> 118  
 <211> 53  
 <212> PRT  
 <213> Homo sapien

<400> 118

Met Lys Ser Leu Pro Cys Leu Leu His Phe His Thr Asp Thr Ala Thr  
 1 5 10 15

Ile Arg Phe Leu Asn Leu Phe Pro Thr Val Ser Arg Leu Ser Ile Pro  
 20 25 30

Gln Ser Arg His Arg His Pro Gly Pro Phe Ser Met Ser Cys Trp Val  
 35 40 45

Pro Ala Arg Ala Ala  
 50

<210> 119  
 <211> 112  
 <212> PRT  
 <213> Homo sapien

<400> 119

Leu Ser Glu His Ala Ala Leu Lys His Leu Phe Asn Lys Ala His His  
 1 5 10 15

Cys Thr Cys Pro Leu Ile His Leu Thr Leu Ser Gly His Thr Thr Cys  
 20 25 30

Phe Arg Glu His Arg Val Arg Gly Lys Val Thr Asp Gln Gln Asp Pro  
 35 40 45

Lys Ala Glu Glu Phe Phe Leu Val Ala Asn Lys Met Lys Ser Leu Pro  
 50 55 60

Cys Leu Phe Ile Ser Thr Gln Thr Arg Gln Pro Ser Asp Phe Ser Ile  
 65 70 75 80

Phe Ser Pro Pro Phe Pro Pro Phe Tyr Ser Thr Lys Pro Pro Ser Ser

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95

<400> 120

Leu Ser Leu Pro Ala Arg Leu Cys Ala Ser Met Gly Asp Asp Leu Ser

180

185

190

Pro Thr Leu Arg Pro Glu Ala Ile His Ser His Asn Ala Pro Ala Arg  
 195 200 205

Ala

<210> 121  
 <211> 118  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 121

Met Asp Glu Arg Arg Pro Gly Arg Tyr Leu Gly Leu Pro Glu Tyr Thr  
 1 5 10 15

Lys Phe Arg Glu Pro Thr Phe Thr Pro Asp Cys Ala Trp Ser Lys Pro  
 20 25 30

Glu Ser Ser Leu Pro Arg Gly Leu Phe Gln Pro Ile Pro Leu Phe Trp  
 35 40 45

Lys Val Ile Leu Gly Ile Glu Thr Glu Asn Trp Asp Lys Gly Ser Leu  
 50 55 60

Arg Lys Thr Lys Thr Asn Asn Glu Thr Gly Asp Met Leu Phe Ser Leu  
 65 70 75 80

Asn Pro Ser Gln Ile Cys Cys Leu Ala Leu Thr His Val Glu Ile Cys  
 85 90 95

Lys Leu Cys Gln Asp Phe Pro Val His Gly Gly Glu Ser His Val Gly  
 100 105 110

Lys Lys Lys Phe Thr Val  
 115

<210> 122  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 122

Met Ala Thr Pro Pro Ala Lys Cys Leu Ser Gln Asp Leu Asp Ser Ser  
 1 5 10 15

10001335 42001

Pro Trp Asp Pro His Ala Arg Glu Ala Asp Cys Ser Ala Pro Thr Gly  
 20 25 30

Ser Leu His Glu Val Val Pro Gln His Cys  
 35 40

<210> 123  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 123

Met Thr Phe Gly Val Pro Asn Ser Val Ser Thr Leu Thr Ser Lys Lys  
 1 5 10 15

Lys Lys Arg Lys Lys Lys Lys Gly Arg Gly Val Pro Trp Ala Arg Arg  
 20 25 30

Val Pro Val Val Glu Leu Phe Phe Pro Ser Gln Phe Pro Pro Phe Phe  
 35 40 45

Thr Thr Met Val Ser Leu Val Lys Arg Glu Lys  
 50 55

<210> 124  
 <211> 127  
 <212> PRT  
 <213> Homo sapien

<400> 124

Met Gly Glu Leu Cys Ser Arg Met Leu Leu Glu Arg Arg His Cys Asp  
 1 5 10 15

Gly Cys Val Val Ala Ala Arg Leu Cys Val Lys Arg Glu Ala Glu Gly  
 20 25 30

Asp Val Ser Pro Asp Ile Ser Lys Val Trp Val Gly Pro Leu Val Pro  
 35 40 45

Glu Ile Leu Leu Gly Gly Met Gly Pro Ala Leu Ser Gly Thr Lys Ile  
 50 55 60

Arg Ala Arg Lys Arg Cys Pro Ser Pro Ile Leu Ser Ile Leu Phe Met  
 65 70 75 80

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Ala Glu Lys Ile Ser Ala Gly Cys Gln His Val Pro Met Pro Val Glu  
85 90 95

Asp Met Pro Thr Ser Pro Leu Pro Arg Glu Gln Asp Leu Gly Leu Gly  
100 105 110

Gln Val Glu Lys Ile Pro Asp Phe Phe Arg His Cys Ile Leu Phe  
115 120 125

<210> 125

<211> 121

<212> PRT

<213> Homo sapien

<400> 125

Met Val Arg Ile Leu Ala Asn Gly Glu Ile Val Gln Asp Asp Asp Pro  
1 5 10 15

Arg Val Arg Thr Thr Thr Gln Pro Pro Arg Gly Ser Ile Pro Arg Gln  
20 25 30

Ser Phe Phe Asn Arg Gly His Gly Ala Pro Pro Gly Gly Pro Gly Pro  
35 40 45

Arg Gln Gln Gln Ala Gly Ala Arg Leu Gly Ala Ala Gln Ser Pro Phe  
50 55 60

Asn Asp Leu Asn Arg Gln Leu Val Asn Met Gly Phe Pro Gln Trp His  
65 70 75 80

Leu Gly Asn His Ala Val Glu Pro Val Thr Ser Ile Leu Leu Leu Phe  
85 90 95

Leu Leu Met Met Leu Gly Val Arg Gly Leu Leu Leu Val Gly Leu Val  
100 105 110

Tyr Leu Val Ser His Leu Ser Gln Arg  
115 120

<210> 126

<211> 67

<212> PRT

<213> Homo sapien

<400> 126

100188-1401

Met Asp Pro Ala Arg Ala Gly Thr Arg Gly Gly Val Pro Ala Pro Pro  
1 5 10 15

Ala His Gly Gly Gly Arg Leu Gly Pro Ala Arg Gly Ala Cys Cys Ser  
20 25 30

Pro Ser Arg Pro Pro Arg Pro Pro His Arg His His Ala Pro Val Pro  
35 40 45

Ala Trp Ile Tyr Thr Trp Ala Ser Val Cys Trp Lys Cys Thr Leu Ala  
50 55 60

Gln Thr Leu  
65

<210> 127  
<211> 64  
<212> PRT  
<213> Homo sapien

<400> 127

Met Leu Pro Arg Leu Val Ser Asn Cys Leu Cys Val Lys Gln Ser Val  
1 5 10 15

His Leu Arg Pro Ser Ala Asn Cys Arg Asp His Arg His Glu Pro Pro  
20 25 30

Leu Pro Ala Thr Met His Ser Glu Arg Ser Arg Asn Arg Glu Cys His  
35 40 45

Ser Thr Thr His Leu Ile Ile Pro Thr Met Thr His Val Ser Gln Arg  
50 55 60

<210> 128  
<211> 41  
<212> PRT  
<213> Homo sapien

<400> 128

Met Asn Phe Gly Lys Ser Ile Met Leu Gln Gly Gln Ala His Ala Pro  
1 5 10 15

Gln Tyr Ser Pro Thr Ala Ala Gln Trp Asp Ile Ser Leu Trp Trp His  
20 25 30

Ile Thr Arg Arg Pro Ser Val Leu Ser

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<210> 129  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

<400> 129

Leu Ser Leu Glu His Asp Ala Phe Thr Glu Val His Val Thr Cys Ala  
 1 5 10 15

Lys Leu Phe Pro Pro Ile Cys Asp Tyr Gly Pro Met Glu Leu Gly Gln  
 20 25 30

Ser Leu Trp Glu Ala Glu Gly Lys Asp Pro Gly His Phe Arg  
 35 40 45

<210> 130  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

<400> 130

Met Lys Asp Lys Gly Leu Arg His Thr Glu Thr Gly Gln Thr Asn Gly  
 1 5 10 15

Lys Pro Thr Arg Pro Ala His Asp Gln Asn Ile Thr Gly Arg Pro Pro  
 20 25 30

Ala Asn Ala Glu Ala Ser Glu Ser Thr Val Gly Gly Trp Asn Gln Ala  
 35 40 45

Pro Gly Asn Leu Ser Ala Ala Phe Arg Leu  
 50 55

<210> 131  
 <211> 87  
 <212> PRT  
 <213> Homo sapien

<400> 131

Met Phe Ser Thr Ser Ser Gln Val Cys Ala Leu Cys Pro Phe Ser Gly  
 1 5 10 15

Ser Leu Glu Leu Pro Pro Ser Leu His Pro Asp Ser Phe Ala Ile Met  
 20 25 30

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Cys Leu Ile Ser Cys Glu Phe Thr Gly Glu Ala Ile Ser Gln Ile Asn  
35 40 45

Gly Cys Lys Cys Ser Lys Lys Lys Lys Thr Lys Lys Lys Ala Gly Gly  
50 55 60

Asn Arg Gly Gln Ser Leu Ser Pro Gly Gly His Cys Phe Pro Pro Gln  
65 70 75 80

Phe Asn Pro His Lys Pro Pro  
85

<210> 132

<211> 264

<212> PRT

<213> Homo sapien

<400> 132

Met Arg Pro Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr Phe  
1 5 10 15

Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg Leu Gly  
20 25 30

Ser Thr Glu Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro Ser Asp Leu  
35 40 45

Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu Tyr Arg Lys Glu  
50 55 60

His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly Ala Tyr Leu Tyr Lys  
65 70 75 80

Gln Gly Phe Ala Ile Pro Gly Ser Ser Phe Leu Asn Val Leu Ala Gly  
85 90 95

Ala Leu Phe Gly Pro Trp Leu Gly Leu Leu Leu Cys Cys Val Leu Thr  
100 105 110

Ser Val Gly Ala Thr Cys Cys Tyr Leu Leu Ser Ser Ile Phe Gly Lys  
115 120 125

Gln Leu Val Val Ser Tyr Phe Pro Asp Lys Val Ala Leu Leu Gln Arg  
130 135 140

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Lys Val Glu Glu Asn Arg Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu  
145 150 155 160

Arg Leu Phe Pro Met Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro  
165 170 175

Ile Leu Asn Ile Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly  
180 185 190

Leu Ile Pro Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser  
195 200 205

Thr Leu Thr Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys  
210 215 220

Leu Leu Ala Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys  
225 230 235 240

Lys Phe Ser Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala Asn  
245 250 255

His Ile His Ser Arg Lys Asp Thr  
260

<210> 133  
<211> 35  
<212> PRT  
<213> Homo sapien

<400> 133

Met Thr Ser Ile Ile Arg Ser Glu Thr Arg Leu Ser Phe Trp Met Leu  
1 5 10 15

Ser Gly Leu Cys Val Arg Glu Tyr Phe Lys Thr Ala Ser Tyr Val Leu  
20 25 30

Leu Gly Asn  
35

<210> 134  
<211> 39  
<212> PRT  
<213> Homo sapien

<400> 134

10001885 "112001

Met Leu Gly Lys Ala Trp Arg Gly Ile Leu Val Gly Glu Lys Gln Ile  
1 5 10 15

Arg Cys Leu Leu Phe Cys Ser Val Ser Lys Ser Pro Lys Lys Cys Gly  
20 25 30

Arg Val Leu Leu Glu Arg Lys  
35

<210> 135  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 135

Met Phe Cys Val Phe Leu Lys Ser Glu Cys Val Phe Tyr His Cys Ser  
1 5 10 15

Val Asn Ala Asn Trp Val Lys Phe Val Asp Ser Gln Ile Tyr Ile Leu  
20 25 30

Thr His Leu Phe Val Pro Phe Phe Leu Ser Val Ile Glu Gln Glu Val  
35 40 45

Leu Lys Ser Pro Ile Thr Ser Ile Ser Leu Thr Leu Pro Phe Phe Ser  
50 55 60

Leu Trp Ile Leu Asn Phe Ser Ile Tyr Phe Val Tyr Phe Glu Gly His  
65 70 75 80

Ile His Leu Leu Ser Ser Cys Ile Leu Met Asn  
85 90

<210> 136  
<211> 38  
<212> PRT  
<213> Homo sapien

<400> 136

Gln Pro Gly Gln His Gly Glu Thr Pro Ser Pro Pro Lys Asp Ala Lys  
1 5 10 15

Thr Ser Gln Ala Trp Arg Arg Ala Pro Ala Val Pro Gly Thr Arg Gln  
20 25 30

Ala Glu Ala Gly Glu Ser

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35

<210> 137  
 <211> 34  
 <212> PRT  
 <213> Homo sapien

<400> 137

Met Leu Leu Ile Arg Phe Tyr Leu Leu Phe Phe Ile His Arg Asp His  
 1 5 10 15

Lys Gln Ile Ala Asp Pro Gly Phe Ser Asn Trp Ser Ile Cys Leu Ile  
 20 25 30

Phe Pro

<210> 138  
 <211> 82  
 <212> PRT  
 <213> Homo sapien

<400> 138

Ser Leu Ser Val Ala Gln Ala Arg Val Gln Trp Arg Asp Pro Gly Ser  
 1 5 10 15

Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Leu Ser Leu Ser Leu  
 20 25 30

Pro Ser Ser Ala Gly Tyr Arg Arg Ala Pro Pro Pro Cys Pro Ala Leu  
 35 40 45

Leu Tyr Phe Ala Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly  
 50 55 60

Leu Glu Leu Leu Thr Ser Gly Asn Pro Ala Pro Pro Arg Pro Pro Lys  
 65 70 75 80

Val Leu

<210> 139  
 <211> 26  
 <212> PRT  
 <213> Homo sapien

<400> 139

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100

Met Leu Asn Ser Phe His Val Phe Leu Asn Gln Leu Thr Asn Asn Phe  
1 5 10 15

Glu Leu Val Ile Ser Ile Leu Gly Leu Ile  
20 25

<210> 140  
<211> 26  
<212> PRT  
<213> Homo sapien

<400> 140

Met Thr Ser Ile Pro Ser Ala Pro Gly Glu Lys Pro Gly Pro Arg Pro  
1 5 10 15

Asp Pro Leu Lys Pro Asn His Ser Ser Phe  
20 25

<210> 141  
<211> 51  
<212> PRT  
<213> Homo sapien

<400> 141

Val Cys Gly Gly Ser Arg Gln Arg Gln Gly Leu Ala Pro Leu Ser Arg  
1 5 10 15

Leu Glu Cys Phe Gly Val Met Thr Ala His Val Asn Leu Glu Phe Leu  
20 25 30

Gly Ser Gly Asp Pro Pro Thr Ser Ala Ser Ala Leu Ala Glu Thr Thr  
35 40 45

Gly Thr Arg  
50

<210> 142  
<211> 58  
<212> PRT  
<213> Homo sapien

<400> 142

Met Leu Gln Ala Arg Pro Pro Ala Ser Gly Lys Asn Gln Asn Thr Thr  
1 5 10 15

Leu Lys Gly Gln Pro Ser Leu Gln Pro Ser Pro Cys Arg Glu Pro Ser

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Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 1.5
Gender (male/female)	10/10
Education (years)	12.0 ± 1.0
Marital status (married/divorced/widowed)	10/0/0
Occupation (retired/employed)	10/0
Income (USD/month)	1,200.0 ± 200.0
Health status (good/poor)	10/0
Smoking status (smoker/non-smoker)	0/10
Alcohol consumption (yes/no)	0/10
Comorbidities (hypertension/diabetes/cholesterol)	5/2/3
Medication (yes/no)	5/5
Family size (1-3/4-6/7-9/10-12)	5/3/2/0
Living arrangement (alone/together)	5/5
Religious affiliation (Christian/Muslim/Jewish)	10/0/0
Place of birth (urban/rural)	10/0
Duration of residence (years)	20.0 ± 5.0
Language spoken (Arabic/English)	10/0
Health insurance (yes/no)	10/0
Healthcare utilization (yes/no)	10/0
Healthcare satisfaction (yes/no)	10/0
Healthcare accessibility (yes/no)	10/0
Healthcare quality (yes/no)	10/0
Healthcare cost (yes/no)	10/0
Healthcare coverage (yes/no)	10/0
Healthcare equity (yes/no)	10/0
Healthcare efficiency (yes/no)	10/0
Healthcare effectiveness (yes/no)	10/0
Healthcare safety (yes/no)	10/0
Healthcare transparency (yes/no)	10/0
Healthcare accountability (yes/no)	10/0
Healthcare responsiveness (yes/no)	10/0
Healthcare patient-centeredness (yes/no)	10/0
Healthcare evidence-based practice (yes/no)	10/0
Healthcare continuous improvement (yes/no)	10/0
Healthcare innovation (yes/no)	10/0
Healthcare leadership (yes/no)	10/0
Healthcare governance (yes/no)	10/0
Healthcare culture (yes/no)	10/0
Healthcare climate (yes/no)	10/0
Healthcare environment (yes/no)	10/0
Healthcare resources (yes/no)	10/0
Healthcare infrastructure (yes/no)	10/0
Healthcare technology (yes/no)	10/0
Healthcare information (yes/no)	10/0
Healthcare knowledge (yes/no)	10/0
Healthcare skills (yes/no)	10/0
Healthcare attitudes (yes/no)	10/0
Healthcare beliefs (yes/no)	10/0
Healthcare values (yes/no)	10/0
Healthcare ethics (yes/no)	10/0
Healthcare law (yes/no)	10/0
Healthcare policy (yes/no)	10/0
Healthcare regulation (yes/no)	10/0
Healthcare standards (yes/no)	10/0
Healthcare accreditation (yes/no)	10/0
Healthcare certification (yes/no)	10/0
Healthcare registration (yes/no)	10/0
Healthcare licensing (yes/no)	10/0
Healthcare monitoring (yes/no)	10/0
Healthcare evaluation (yes/no)	10/0
Healthcare research (yes/no)	10/0
Healthcare development (yes/no)	10/0
Healthcare reform (yes/no)	10/0
Healthcare change (yes/no)	10/0
Healthcare improvement (yes/no)	10/0
Healthcare innovation (yes/no)	10/0
Healthcare leadership (yes/no)	10/0
Healthcare governance (yes/no)	10/0
Healthcare culture (yes/no)	10/0
Healthcare climate (yes/no)	10/0
Healthcare environment (yes/no)	10/0
Healthcare resources (yes/no)	10/0
Healthcare infrastructure (yes/no)	10/0
Healthcare technology (yes/no)	10/0
Healthcare information (yes/no)	10/0
Healthcare knowledge (yes/no)	10/0
Healthcare skills (yes/no)	10/0
Healthcare attitudes (yes/no)	10/0
Healthcare beliefs (yes/no)	10/0
Healthcare values (yes/no)	10/0
Healthcare ethics (yes/no)	10/0
Healthcare law (yes/no)	10/0
Healthcare policy (yes/no)	10/0
Healthcare regulation (yes/no)	10/0
Healthcare standards (yes/no)	10/0
Healthcare accreditation (yes/no)	10/0
Healthcare certification (yes/no)	10/0
Healthcare registration (yes/no)	10/0
Healthcare licensing (yes/no)	10/0
Healthcare monitoring (yes/no)	10/0
Healthcare evaluation (yes/no)	10/0
Healthcare research (yes/no)	10/0
Healthcare development (yes/no)	10/0
Healthcare reform (yes/no)	10/0
Healthcare change (yes/no)	10/0
Healthcare improvement (yes/no)	10/0
Healthcare innovation (yes/no)	10/0
Healthcare leadership (yes/no)	10/0
Healthcare governance (yes/no)	10/0
Healthcare culture (yes/no)	10/0
Healthcare climate (yes/no)	10/0
Healthcare environment (yes/no)	10/0
Healthcare resources (yes/no)	10/0
Healthcare infrastructure (yes/no)	10/0
Healthcare technology (yes/no)	10/0
Healthcare information (yes/no)	10/0
Healthcare knowledge (yes/no)	10/0
Healthcare skills (yes/no)	10/0
Healthcare attitudes (yes/no)	10/0
Healthcare beliefs (yes/no)	10/0
Healthcare values (yes/no)	10/0
Healthcare ethics (yes/no)	10/0
Healthcare law (yes/no)	10/0
Healthcare policy (yes/no)	10/0
Healthcare regulation (yes/no)	10/0
Healthcare standards (yes/no)	10/0
Healthcare accreditation (yes/no)	10/0
Healthcare certification (yes/no)	10/0
Healthcare registration (yes/no)	10/0
Healthcare licensing (yes/no)	10/0
Healthcare monitoring (yes/no)	10/0
Healthcare evaluation (yes/no)	10/0
Healthcare research (yes/no)	10/0
Healthcare development (yes/no)	10/0
Healthcare reform (yes/no)	10/0
Healthcare change (yes/no)	10/0
Healthcare improvement (yes/no)	10/0
Healthcare innovation (yes/no)	10/0
Healthcare leadership (yes/no)	10/0
Healthcare governance (yes/no)	10/0
Healthcare culture (yes/no)	10/0
Healthcare climate (yes/no)	10/0
Healthcare environment (yes/no)	10/0
Healthcare resources (yes/no)	10/0
Healthcare infrastructure (yes/no)	10/0
Healthcare technology (yes/no)	10/0
Healthcare information (yes/no)	10/0
Healthcare knowledge (yes/no)	1

30

<400> 145

Met Ser Ile Gly Val Ile Val Trp Thr Arg Gly Arg Val Pro Ile Val  
1 5 10 15

103

Pro Pro Ser Glu Tyr Asp Gly Ser Cys Gly Thr Ala Arg Ser Ile Ala  
20 25 30

Ala Cys Ser Arg Arg Arg Val Asn Val Arg Leu Gln Gly Phe Glu Pro  
35 40 45

Ile His Phe Gln Leu Arg Cys Ile  
50 55

<210> 148  
<211> 92  
<212> PRT  
<213> Homo sapien

<400> 148

Met Ser Ala Leu Asn Pro Gly Gly Gln Arg Gly Val Tyr Glu Ala Arg  
1 5 10 15

Val Pro Pro Thr Pro Thr Arg Gly Pro Lys Gly Ala Leu Pro Lys Lys  
20 25 30

Lys Gln Gln Gln Gln Lys Cys Thr Asp Pro Ala Cys Thr Arg Leu Arg  
35 40 45

His Ala Ser Leu Pro Ser Val Arg Leu Asp Pro Pro Pro Pro Ala Cys  
50 55 60

Ile Lys Ser Gly Pro His Pro Pro Gly Arg Arg Ser Ile His His Met  
65 70 75 80

Ala Pro Leu Glu His Asp Leu Glu Glu Gln Arg Leu  
85 90

<210> 149  
<211> 22  
<212> PRT  
<213> Homo sapien

<400> 149

Met Val Val Lys Asp His Leu Gly Ser Gln Gly Val Glu Gly Gly Gly  
1 5 10 15

Ile Gln Phe His Arg Lys  
20

<210> 150

100485-1400

<211> 254  
 <212> PRT  
 <213> Homo sapien

<400> 150

Met Glu Phe Pro Lys Met Leu Thr Arg Lys Ile Lys Leu Trp Asp Ile  
 1 5 10 15

Asn Ala His Ile Thr Cys Arg Leu Cys Ser Gly Tyr Leu Ile Asp Ala  
 20 25 30

Thr Thr Val Thr Glu Cys Leu His Thr Phe Cys Arg Ser Cys Leu Val  
 35 40 45

Lys Tyr Leu Glu Glu Asn Asn Thr Cys Pro Thr Cys Arg Ile Val Ile  
 50 55 60

His Gln Ser His Pro Leu Gln Tyr Ile Gly His Asp Arg Thr Met Gln  
 65 70 75 80

Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Glu Ala Glu Met Arg  
 85 90 95

Lys Gln Arg Glu Phe Tyr His Lys Leu Gly Met Glu Val Pro Gly Asp  
 100 105 110

Ile Lys Gly Glu Thr Cys Ser Ala Lys Gln His Leu Asp Ser His Arg  
 115 120 125

Asn Gly Glu Thr Lys Ala Asp Asp Ser Ser Asn Lys Glu Ala Ala Glu  
 130 135 140

Glu Lys Pro Glu Glu Asp Asn Asp Tyr His Arg Ser Asp Glu Gln Val  
 145 150 155 160

Ser Ile Cys Leu Glu Cys Asn Ser Ser Lys Leu Arg Gly Leu Lys Arg  
 165 170 175

Lys Trp Ile Arg Cys Ser Ala Gln Ala Thr Val Leu His Leu Lys Lys  
 180 185 190

Phe Ile Ala Lys Lys Leu Asn Leu Ser Ser Phe Asn Glu Leu Asp Ile  
 195 200 205

Leu Cys Asn Glu Glu Ile Leu Gly Lys Asp His Thr Leu Lys Phe Val

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210

215

220

Val Val Thr Arg Trp Arg Phe Lys Lys Ala Pro Leu Leu Leu His Tyr  
 225 230 235 240

Arg Pro Lys Met Asp Leu Leu Arg Pro Lys Met Asp Leu Leu  
 245 250

<210> 151  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 151

Met Gly Thr Arg Tyr Tyr Ile Leu Glu Phe Val Leu Arg Arg His Lys  
 1 5 10 15

Leu Asn Ser Arg Ser Leu Cys Pro Lys Phe His Arg Leu Lys Lys Arg  
 20 25 30

Ser Ser Asn Tyr Arg Ser Gly Tyr  
 35 40

<210> 152  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 152

Met Glu Asn Ser Gln Glu Met Asn Glu Lys Arg Leu Cys Glu Ser Tyr  
 1 5 10 15

Ala Thr Val Tyr Ile Thr Ser Cys Glu Ala Ile Arg Leu Lys Thr Arg  
 20 25 30

Ala Asn Leu Lys Thr Lys Leu Phe Ser Cys  
 35 40

<210> 153  
 <211> 51  
 <212> PRT  
 <213> Homo sapien

<400> 153

Met Leu Leu Ser Tyr Ile Ser Gly Arg Phe Leu Ser Thr Arg Lys Glu  
 1 5 10 15

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Asn Thr Gly Leu Ala Lys Gln Gly Pro Leu Phe Gly Ile Ile Phe Val  
20 25 30

Pro Asn Lys Gln Ser Arg Gly Trp Val Cys Trp Leu Val Lys Glu Leu  
35 40 45

Leu Arg Phe  
50

<210> 154  
<211> 63  
<212> PRT  
<213> Homo sapien

<400> 154

Met Leu Glu Pro Ala Ala Ser Met Ile Gly Met Pro Gly Gln Val Gly  
1 5 10 15

Ser Arg Gly Gly Cys Ser Asp Arg Arg Val His Ser Ser Tyr Asn Arg  
20 25 30

Gly Val Leu Asp Phe Ile Leu Gln Ser Glu Leu Ser Thr Phe Ala Phe  
35 40 45

Trp Arg Thr Gln Val Thr Ala His Leu Pro Phe Leu Leu Glu Pro  
50 55 60

<210> 155  
<211> 50  
<212> PRT  
<213> Homo sapien

<400> 155

Met Lys Pro Lys Lys Lys Lys Lys Arg Gln Lys Lys Arg Val Leu Trp  
1 5 10 15

Gly Asn Pro Gly Gly Leu Arg Met Cys Ser Leu Val Cys Arg Thr Ile  
20 25 30

Val Val Pro Val Pro Asn Phe Pro Pro Tyr Ser Ser Val Asp Asp Lys  
35 40 45

Arg Gly  
50

<210> 156  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<400> 156

Met Phe Tyr Leu Gly Phe Arg Val Asn Lys Lys Lys Lys Thr Cys Val  
 1 5 10 15

Leu Ser Phe Cys Asp Arg Thr Glu His Ile Thr Arg Arg Lys Arg Gly  
 20 25 30

Gly Arg Lys  
 35

<210> 157  
 <211> 73  
 <212> PRT  
 <213> Homo sapien

<400> 157

Met Gly Arg Cys Ser Leu Phe Thr Pro Ala Ala Ile Gly Glu Arg Gly  
 1 5 10 15

Ile Gln Leu Ile Ser Tyr Leu Tyr Arg Met Asp Tyr Leu Cys Lys Asn  
 20 25 30

Lys Asn Leu Gln Thr Lys Asp Ile Val Glu Leu His Tyr Pro Pro Ser  
 35 40 45

Gln Asp Glu Ser Thr Asp Met Gln His His Asp His Glu Gln Met Val  
 50 55 60

Pro Leu Gly Met Pro Met Val Gly His  
 65 70

<210> 158  
 <211> 82  
 <212> PRT  
 <213> Homo sapien

<400> 158

Met Tyr Leu Ser Val Cys Val Cys Val Cys Val Cys Tyr Gly Gly Arg  
 1 5 10 15

Gly Gly Phe Phe Lys Ile Ser Val Val Cys Gly Phe Phe Phe His Thr  
 20 25 30

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Met Arg Arg Lys Arg Lys Thr Arg Leu Ser Val Arg Pro Gly Ser Glu  
1 5 10 15



Leu Ser Lys Leu Pro Arg Leu Ala Leu Asn Gln Asn His Phe Ala Ser  
20 25 30

Gln Pro Arg Pro Leu Gly Tyr Thr Ala Leu Asn Gly Pro Ala Asn Ala  
35 40 45

Gly His Ser Ile Ser Leu Val Leu Glu Thr Arg Glu Leu Lys Gln Ser  
50 55 60

Ile Pro Leu Ser Asn Lys Ile Met Asp Ser Ala Lys Lys Lys Gln Lys  
65 70 75 80

Lys Lys Lys Gly Cys Gly Gly Thr Pro Gly Ala Ile Arg Gly Pro Gly  
85 90 95

Cys Glu Leu Val Ser Arg Ser Ile His Ser Asp Thr His Thr Ser Arg  
100 105 110

Lys Lys Lys Glu Glu Asn Thr Ser Glu Lys Arg Lys Asn Thr Thr Arg  
115 120 125

Arg Lys Lys Lys Pro Glu Lys Ala Thr Arg Lys Gln Arg Glu Asn Lys  
130 135 140

Arg Ala Arg Gly Lys Arg Asp Ala Arg Lys Lys Lys Gln Glu Pro Gln  
145 150 155 160

Ala Glu Thr Glu Thr Ser Lys Gly Thr Gln Arg Arg Thr Thr Lys Arg  
165 170 175

Ser Gln Glu Gln Thr Lys Ala Arg His Lys Ala Asp Asp Glu Arg Gly  
180 185 190

Thr Arg Lys Glu Arg Lys Arg Glu  
195 200

<210> 161

<211> 38

<212> PRT

<213> Homo sapien

<400> 161

Met Asp Ala Trp Ser Arg Arg Gly Thr Glu Ser Cys Tyr Phe Ser Leu  
1 5 10 15

Arg Pro Tyr Leu Ala Ala Phe Ile Asn Ala Ser Glu Leu Tyr Val Ile  
 20 25 30

Ile Ile Trp Ile Tyr Thr  
 35

<210> 162  
 <211> 66  
 <212> PRT  
 <213> Homo sapien

<400> 162

Met Asp Ala Gln Trp Ser Gly Arg Ser Asp Val Trp Ser Ser Glu Val  
 1 5 10 15

Glu Lys His Glu Ser Lys Asp Gln His Leu Gly Val Leu Leu Leu Cys  
 20 25 30

Leu Val Asn Arg Gly Leu Arg Ala Val Phe His Leu Val Pro Phe Ser  
 35 40 45

Glu Asp Gln Ile Pro Arg Leu Gln Ser Met Gln Gly Leu His Arg Trp  
 50 55 60

Leu Leu  
 65

<210> 163  
 <211> 76  
 <212> PRT  
 <213> Homo sapien

<400> 163

Met Gly Glu Leu Gly Arg Glu Thr Lys Phe His Pro Gly Pro Leu Trp  
 1 5 10 15

Pro Arg Val Pro Gln Ala Phe Phe Phe Phe Val Phe Phe Phe Phe Arg  
 20 25 30

Leu Leu Met Asp Leu Gln Arg Leu Glu Gln Pro Phe Arg Gln Thr Gln  
 35 40 45

Val Thr Ser Ile Glu Ser Leu Leu Asn Leu Ser Glu Ile Tyr Met Leu  
 50 55 60

10001385-12001

111

Glu Leu Gln Val Asn Ser Pro Val Asn Thr Gln Ala  
65 70 75

<210> 164  
<211> 69  
<212> PRT  
<213> Homo sapien

<400> 164

Met His Val Pro Met Arg Glu Ser Met His Val Cys Ala Tyr Glu His  
1 5 10 15

Lys Leu Leu Cys Trp Arg Gly Ser Trp Glu Arg Arg Gly Glu His Ala  
20 25 30

Leu Leu Val Ile His Ile His Ser Tyr Val Cys Thr His Asn Ile His  
35 40 45

Pro Glu Pro Val Ser Gln Ile Asp Gly Ser Lys Ser Leu Ser Tyr Arg  
50 55 60

Arg Pro Asp Pro Thr  
65

<210> 165  
<211> 53  
<212> PRT  
<213> Homo sapien

<400> 165

Met Leu Pro Phe Ser Gly Leu Val Tyr Thr Leu Phe Phe Val Phe Phe  
1 5 10 15

Phe Val Arg Gln Asp Leu Ala Leu Ser Ala Arg Leu Glu Cys Ser Gly  
20 25 30

Thr Gly Met Ile His Cys Arg Thr Pro Gly Leu Lys Arg Phe Thr Cys  
35 40 45

Leu Lys Pro Leu Met  
50

<210> 166  
<211> 86  
<212> PRT  
<213> Homo sapien

10001835-11001

&lt;400&gt; 166

Glu Thr Gly Ser Cys Ser Val Cys Gln Ala Gly Val Gln Trp His Arg  
 1 5 10 15

Tyr Asp Ser Leu Gln Asn Ser Trp Ala Gln Glu Ile His Leu Pro Ala  
 20 25 30

Ala Ser His Val Ala Gly Asp His Ser Ala Tyr Gly His Thr Trp Cys  
 35 40 45

Leu Gln Pro His Leu Ala Asn Phe Leu Phe Phe Phe Asn Gly Asn Lys  
 50 55 60

Val Ser Leu Cys Cys Pro Val Trp Ser Ala Thr Pro Glu Ile Gln Arg  
 65 70 75 80

Ser Ser His Leu Gly Ile  
 85

&lt;210&gt; 167

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 167

Met Glu Arg His Gly Glu Ile Phe Leu Pro Thr Leu Asn Tyr Ser Asn  
 1 5 10 15

Tyr Ser Lys Thr Ser Asn Leu Lys Thr Asn Arg Arg Ser Pro Thr Gly  
 20 25 30

Leu Lys Arg Arg Met Arg Asp Lys Glu Lys Ser Val Trp Leu Pro Leu  
 35 40 45

Leu Ser Thr Asp  
 50

FOOTNOTES 112001